

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-5. (cancelled)

6. (currently amended) ~~The method according to claim 1, characterized in that~~ A method for vibration damping in a machine tool comprising at least one hydrostatic guide (8) including at least one pocket (1) for supporting a first component (9) on a second component (10), through which an oil flow is passed with a predetermined volume flow and at a predetermined pressure and exits through at least one gap (3), comprising the step of:

damping oscillatory vibration in a machine tool to increase the stiffness of the hydrostatic guide (8) by regulating the oil flow through the gap (3) in response to the loads arising and for achieving a constant width of the gap (3), wherein as input quantities accelerations of components (9, 10) are taken into account.

7. (original) The method according to claim 6, characterized in that the loads of the hydrostatic guide are pre-calculated on the basis of the accelerations resulting from the movements of components and/or workpieces, and that in response to said values the oil pressure and/or oil flow through the gap (3) that is required for preventing changes in the width of the gap is pre-calculated.

8-18. (cancelled)

19. (currently amended) ~~The method according to claim 17, characterized in that~~ A method for vibration damping in a machine tool comprising at least one hydrostatic guide (8) including at least one pocket (1) for supporting a first component (9) on a second component (10), through which an oil flow is passed with a predetermined volume flow and at a predetermined pressure and exits through at least one gap (3), comprising the step of:

damping oscillatory vibration in a machine tool to increase the stiffness of the hydrostatic guide (8) by regulating the oil flow through the gap (3) in response to the loads arising and for achieving a constant width of the gap (3), wherein the oil pressure and/or the oil flow and/or the oil volume of a plurality of pockets (1) of a plurality of hydrostatic guides (8) of a machine tool are regulated by means of a joint control unit, and wherein the control unit for the active vibration damping of components of the machine tool processes vibrations arising in the components and/or workpieces as input quantities.

20. (original) The method according to claim 19, characterized in that the vibrations of the components are vibrations excited outside the components.

21. (original) The method according to claim 19, characterized in that the vibrations of the components are the natural vibrations thereof.

22. (original) The method according to claim 19, characterized in that the vibrations arising are measured.

23. (original) The method according to claim 19, characterized in that the vibrations arising are calculated.

24. (currently amended) ~~The method according to claim 17, characterized in that~~ A method for vibration damping in a machine tool comprising at least one hydrostatic guide (8) including at least one pocket (1) for supporting a first component (9) on a second component (10), through which an oil flow is passed with a predetermined volume flow and at a predetermined pressure and exits through at least one gap (3), comprising the step of:

damping oscillatory vibration in a machine tool to increase the stiffness of the hydrostatic guide (8) by regulating the oil flow through the gap (3) in response to the loads arising and for achieving a constant width of the gap (3), wherein the oil pressure and/or the oil flow and/or the oil volume of a plurality of pockets (1) of a plurality of hydrostatic guides (8) of a machine tool are regulated by means of a joint control unit, and wherein the control unit processes and compensates dimensional deviations of said guides (8) as input quantities.

25. (original) The method according to claim 24, characterized in that the dimensional deviations are measured and the measured values are supplied to the control unit.

26. (original) The method according to claim 25, characterized in that the dimensional deviations are measured in advance, stored in a memory and the measured values are supplied to the control unit during operation of the machine tool.

27. (original) The method according to claim 24, characterized in that the dimensional deviations are calculated.

28. (cancelled)

29. (previously presented) A method for vibration damping in a machine tool comprising at least one hydrostatic guide (8) including at least one pocket (1) for supporting a first component

(9) on a second component (10), through which an oil flow is passed with a predetermined volume flow and at a predetermined pressure and exits through at least one gap (3), comprising the steps of:

regulating oil flow through the gap (3) in response to the loads arising and for achieving a constant width of the gap (3); and

accounting for the vibration behavior of the machine tool by predetermining and correspondingly regulating the oil pressure in said pocket (1) or the oil flow through said gap (3) for preventing changes in the width of said gap.

30. (cancelled)